

Zambia's 100kW Photovoltaic Convergence Solution



Article Overview

Zambia's 100 MW Chisamba solar PV project is the country's largest single-site solar installation, delivering clean electricity to 150,000 households and strengthening national energy security.

Project Overview

The Chisamba solar farm, located in the Central Province's Chisamba District, represents Zambia's largest grid-connected solar PV facility and one of sub-Saharan Africa's largest outside South Africa. Developed by Zesco's subsidiary Kariba North Bank Extension Power Corporation (KNBEPC) with Power China as the engineering, procurement, and construction contractor, the project covers 106 hectares and includes a 100 MW ground-mounted solar PV station, a 33/132 kV step-up substation, and a 2.7 km double-circuit 132 kV transmission line.

Technical Specifications

- Installed Capacity: 100 MW
- Annual Energy Output: Approximately 180 million kWh, sufficient to power around 150,000 households
- Grid Integration: Connected to Zambia's national transmission system, with a 33/132 kV substation and expanded infrastructure to ensure stable delivery
- Construction Efficiency: 66,000 helical piles installed in 52 days, two main transformers and 20 box transformers tested in 30 days, with the entire project co...

Article Content

Powering Zambia's Future: Chisamba Solar Project's \$100M Triumph

As of May, 2025, our groundbreaking 100 Megawatt (MW) Chisamba Solar Photovoltaic (PV) Project is ready to be

A Solar Photovoltaic Performance and Financial Modeling Solution for ...

This study conducts a solar photovoltaic performance and financial analysis for grid-connected homes in Zambia to

JA Solar supplies high-efficiency modules to Zambia's largest PV ...

JA Solar has played an integral role in electrifying Zambia's largest standalone photovoltaic installation, the 100MW

Powering Zambia's Future: Chisamba Solar Project's \$100M Triumph

By Matongo Maumbi We are thrilled to share a major step forward for ZESCO and for Zambia's electricity future! As

Solar and Backup Solutions in Zambia

Photovoltaic Zambia provides optimal conditions for photovoltaic (PV) with average irradiation rates of 5.5

Zambia partners with Chinese firms to build nationwide solar power ...

LUSAKA, July 14 (Xinhua) -- The Zambian government on Tuesday signed contracts with a consortium of five Chinese

Sector Analysis Zambia Renewable Power Generation and Energy

Executive summary The Zambian government has set a target to increase its installed solar and wind capacity to 600 MW by 2030.

Chisamba 100MW Solar Plant will revolutionise electricity landscape ...

ZESCO says the commissioning of the 100 megawatt (MW) Chisamba Solar PV Plant is set to revolutionise the

Groundbreaking 100MW Solar Project Secures Funding Milestone in Zambia!

Zambia achieves a significant milestone in its energy transition with the financial close of the 100MW Chisamba Solar

Govts signs K4.3bn contract for 2MW constituency solar plants

This initiative was approved on 24th November 2025 for onward implementation. The Presidential Constituency Energy

Zambia completes 100 MW solar farm

Zesco has completed the 100 MW Chisamba solar farm in southern Zambia and has launched plans for a second 100

Zambia launches country's largest grid-connected solar power project

Zambia on Monday launched a 100-megawatt (MW) solar photovoltaic (PV) project, the country's largest grid-connected

Zambia's largest solar power plant breaks ground

The Kabwe 100MW Solar Photovoltaic (PV) Project, undertaken by POWERCHINA, broke ground in Zambia on Feb 1. Officials and

SIAVONGA: US\$80 MILLION SOLAR PROJECT SET TO BOLSTER

Zambia has strengthened its drive towards sustained energy security and increased investment with the

Zambia: Another solar project brings 1GW govt target closer

In a significant move towards energy diversification, Zambia has broken ground on a 100MW Solar PV project in the

Zambia Commissions First 100MW Solar Plant to Power 90,000 Homes

Zambia has commissioned its first large-scale solar power facility, a 100-megawatt (MW) plant in Chisamba, marking

100 MW Chisamba solar PV project in Zambia reaches financial close

The grid-connected 100 MW Chisamba solar PV project, in Zambia, has secured \$71.5-million from financial services

Zambia completes 100 MW solar farm

State-owned power company Zesco has completed the 100 MW Chisamba solar farm in southern Zambia. The

Zambia Unveils \$100M Solar Power Plant To Tackle Energy Crisis

Zambia has launched its largest grid-connected solar energy project, a 100-megawatt photovoltaic (PV) power plant as

Zambia Launches First Solar Plant

Zambia has officially launched a 100-megawatt solar power plant, advancing the country's renewable energy

POWERCHINA launches Zambia's largest single PV project

The photovoltaic area of the Kabwe 100 MW Solar Project. The transmission line of the Kabwe 100 MW Solar Project. Zambia

Zambia launches 100 megawatt solar plant supplying First Quantum ...

Zambia's President Hakainde Hichilema on Monday opened the country's biggest grid-connected solar power plant,

Government rolls out K4.3bn solar project for every constituency

Government has formally launched one of Zambia's largest renewable energy investments after signing contracts for the

Zambia launches largest grid-connected solar power project

LUSAKA, June 30 (Xinhua) — Zambia on Monday launched a 100-megawatt (MW) solar photovoltaic (PV) project, the country's

Zambia launches largest grid-connected solar power project

This project represents a significant step in Zambia's goal of adding 1,000 MW of solar power to the national grid by the end of 2025.

POWERCHINA launches Zambia's largest single PV project

Zambia celebrated a major advancement in renewable energy on May 20 with the launch of the Kabwe 100 MW Solar Project,

Work begins on Zambia's largest solar-plus-storage project

Globeleq has started construction on 250 MW solar farm connected to 150 MW/600 MWh of battery storage in

POWERCHINA completes construction of 100MW solar project in Zambia

POWERCHINA, an integrated construction group, has completed the construction of a 100MW solar project in

Zambia Commissions 100MW Solar Power Plant in Chisamba to

Zambia commissioned a 100MW solar power plant in Chisamba on 30 June 2025 as part of efforts to reduce

Zambia Inaugurates Landmark 100 MW Kabwe Solar Project Built by ...

Zambia marked a significant milestone in its renewable energy journey with the official launch of the Kabwe 100 MW

Contact Us

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